

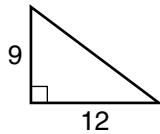
LESSON
6-3

Homework and Practice

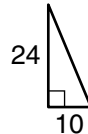
The Pythagorean Theorem

Find the length of the hypotenuse in each triangle.

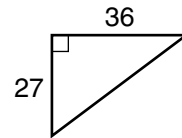
1.



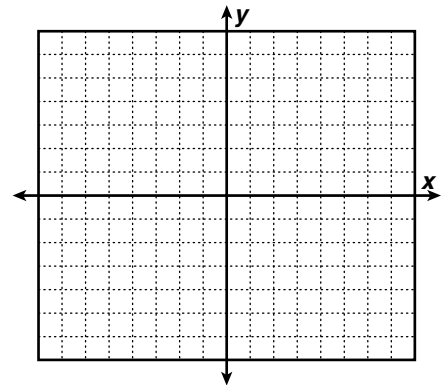
2.



3.

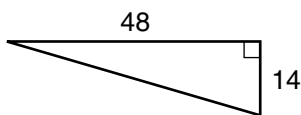


4. Graph the triangle formed with coordinates $(-7, 0)$, $(-7, -6)$, $(1, 0)$ and find the length of the hypotenuse.

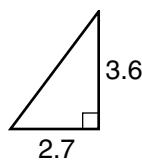


Solve for the unknown side in each right triangle. Round the answers to the nearest hundredth.

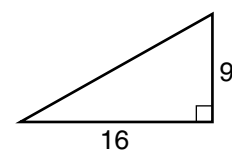
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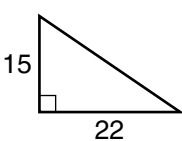
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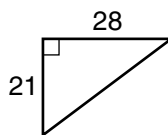
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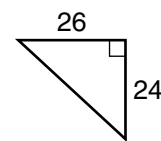
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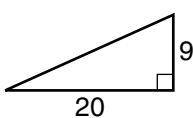
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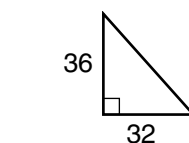
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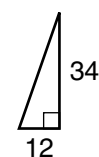
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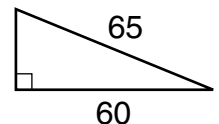
12.



13.



14. Use the Pythagorean Theorem to find the height of the triangle at the right. Then use the height to find the area of the triangle.



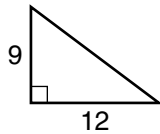
LESSON
6-3

Homework and Practice

The Pythagorean Theorem

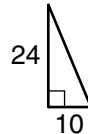
Find the length of the hypotenuse in each triangle.

1.



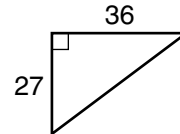
15

2.



26

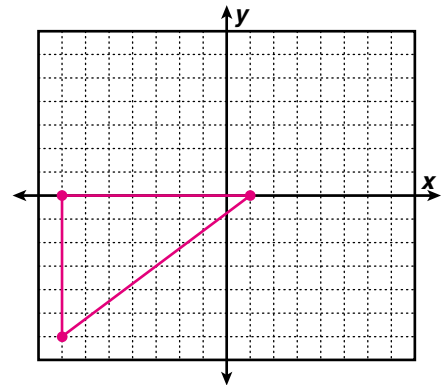
3.



45

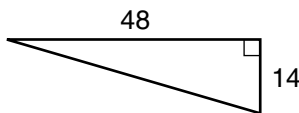
4. Graph the triangle formed with coordinates $(-7, 0)$, $(-7, -6)$, $(1, 0)$ and find the length of the hypotenuse.

10



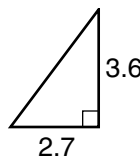
Solve for the unknown side in each right triangle. Round the answers to the nearest hundredth.

5.



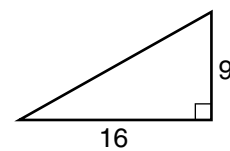
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6.



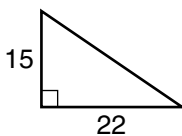
4.5

7.



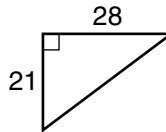
18.36

8.



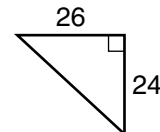
26.63

9.



35

10.



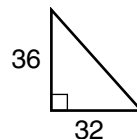
35.38

11.



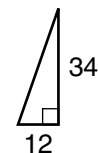
21.93

12.



48.17

13.



36.06

14. Use the Pythagorean Theorem to find the height of the triangle at the right. Then use the height to find the area of the triangle.

$h = 25$; area = 750 units²

